- 1. An isolated nucleic acid molecule selected from the group consisting of:
- a) a nucleic acid molecule comprising the nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, 3, or the cDNA insert of the plasmid deposited with the ATCC as Accession Number PTA-1836; and
- b) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2, or the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC as Accession Number PTA-1836.
- 2. The isolated nucleic acid molecule of claim 1, which consists of a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID/NO:2, or the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC as Accession Number PTA-1836.
- 3. (Once Amended) An isolated nycleic acid molecule selected from the group consisting of:
- (a) a nucleic acid molecule comprising from about 10 to about 64 contiguous nucleotides from the nucleic acid sequence (SEQ ID NO:6)

  ATGGCGGCGGCGGGGGAATCGCGCCTCGTCGGGATTCCCGGGCCCA
  GGGCTA and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (b) a nucleic acid molecule comprising from about 10 to about 64 contiguous nucleotides from the nucleic acid sequence (SEQ ID NO:7)

  GAGAAAATGGCGGCGGCGGCGGGGGAATCGCCCTCGTCGGGATTCCCGG

GCGCCAGGGCTA and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;

- (c) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:8) GCGCGCCCGCG and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1/
- (d) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:9) CCGCGAGCCGCGGCGC and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (e) a nucleic acid molecule comprising the nucleic acid sequence GCACGTGGA and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (f) a nucleic acid molecule comprising the nucleic acid sequence CTACGTCTA and having at least/80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (g) a nucleic acid molecule comprising the nucleic acid sequence CCAGTTCCA and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (h) a nucleic acid molecule comprising the nucleic acid sequence GCTATTGC and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (i) a fucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:10) TTTGGATGGTCA and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;

- (j) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:11) GGACAGCTTC and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (k) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:12) CCCCTGAGTGC and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (l) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:13) GCCAGCATTT and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (m) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:14) CATCTAGACCT and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (n) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:15) GGCTGTAGCA and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (o) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:16) GTAATGCTGT and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (p) a nucleic acid molecule comprising the nucleic acid sequence CCCAGTGAC and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1;
- (q) a nucleic acid molecule comprising the nucleic acid sequence (SEQ ID NO:17) GGATGCCCTCCCCAT and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1; and

- (r) a nucleic acid molecule comprising the nucleic acid sequence GGCCTTTCG and having at least 80% homology to the nucleic acid sequence shown in SEQ ID NO:1.
- 4. The nucleic acid molecule of claim 1 or claim 3 further comprising vector nucleic acid sequences.
- 5. The nucleic acid molecule of claim 1 or claim 3 further comprising nucleic acid sequences encoding a heterologous polypeptide.
- 6. A host cell which contains the nucleic acid molecule of claim 1 or claim 3.
  - 7. The host cell of claim 6 which is a mammalian host cell.
- 8. A non-human mammalian host cell containing the nucleic acid molecule of claim 1 or claim 3.
- 9. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 97% identical to a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 1, 3, the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC as Accession Number PTA-1836, or a complement thereof.
- 10. (Once Amended) An isolated polypeptide selected from the group consisting of:
- a) a polypeptide comprising from about 5 to about 19 contiguous amino acids from the amino acid sequence (SEQ ID NO:18)

MAAAAGNRASSSGFPGARAT and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;

- b) a polypeptide comprising from about 5 to about 19 contiguous amino acids from the amino acid sequence (SEQ ID NO:19) EKMAAAAGNRASSSGFPGARAT and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;
- c) a polypeptide comprising the amino acid sequence (SEQ ID NO:20) SAPAA and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;
- d) a polypeptide comprising the amino acid sequence (SEQ ID NO:21) ASRGG and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;
- e) a polypeptide comprising the amino acid sequence (SEQ ID NO:22) CARGT and raving at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;
- f) a polypeptide comprising the amino acid sequence (SEQ ID NO:23) VSSSTH and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;
- g) a polypeptide comprising the amino acid sequence (SEQ ID NO:24) LMAIADE and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;
- h) a polypeptide comprising the amino acid sequence (SEQ ID NO:25) TLDGQQDSFLQASVPNNYLETTENSSPECT and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2;

- i) a polypeptide comprising the amino acid sequence (SEQ ID NO:26) LASISV and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2
- j) a polypeptide comprising the amino acid sequence (SEQ ID NO:27) SFGCSSNSSNAVIPSDE and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2; and
- k) a polypeptide comprising the amino acid sequence (SEQ ID NO:28) SQDALPIVPQLQVENGEDIIIIQQDTPETLPGHTKAKQPYREDT and having at least 80% homology to the amino acid sequence shown in SEQ ID NO:2.
- 11. The isolated polypeptide of claim 9 or claim 10 comprising the amino acid sequence of SEQ ID NO:2.
- 12. The polypeptide of claim 9 or claim 10 further comprising heterologous amino acid sequences.
- 13. An antibody which selectively binds to a polypeptide of claim 9 or claim 10.
- 14. A method for producing a polypeptide comprising the amino acid sequence of SEQ ID NO:2, or the amino acid sequence encoded by the cDNA insert of the plasmid deposited with the ATCC as Accession Number PTA-1836, comprising culturing the host cell of claim 5 under conditions in which the nucleic acid molecule is expressed.
- 15. A method for detecting the presence of a polypeptide of claim 9 or claim 10 in a sample, comprising:

contacting the sample with a compound which selectively binds to a polypeptide of claim 8; and b) determining whether the compound binds to the polypeptide in the sample. The method of claim 13, wherein the compound which binds to the 16. polypeptide is an antibody. A kit comprising a compound which selectively binds to a 17. polypeptide of claim 9 or claim 10 and instructions for use. A method for detecting the presence of a nucleic acid molecule of 18. claim 1 in a sample, comprising the steps of: contacting the sample with a nucleic acid probe or primer a) which selectively hybridizes to the nucleic acid molecule; and b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample. 19. The method of claim 18, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe. 20. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1 or claim 3 and instructions for use. A method for identifying a compound which binds to a 21. polypeptide of claim 9 or claim 10 comprising the steps of: - 12 -

contacting a polypeptide, or a cell expressing a polypeptide of claim 8 with a test compound; and b) determining whether the polypeptide binds to the test compound. The method of claim 19, wherein the binding of the test compound 22. to the polypeptide is detected by a method selected from the group consisting of: detection of binding by direct detecting of test a) compound/polypeptide binding; detection of binding using a competition binding assay; b) detection of binding using an assay for MEKK1-mediated c) signal transduction. 23. A method for modulating the activity of a polypeptide of claim 9 or claim 10 comprising contacting a polypeptide or a cell expressing a polypeptide of claim 8 with a compound which binds to the polypeptide in a sufficient concentration to modulate the activity of the polypeptide. 24. A method for identifying a compound which modulates the activity of a polypeptide of claim 9 or claim 10, comprising: contacting a polypeptide of claim 8 with a test compound; and determining the effect of the test compound on the activity of the polypeptide to thereby identify a compound which modulates the activity of the polypeptide. - 13 -